

Data Citations for NASA's Physical Oceanographic Data

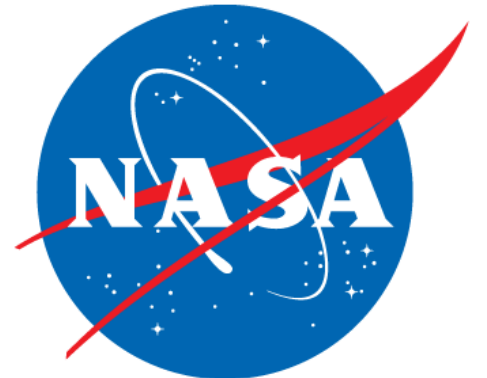
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Amanda Leon NSIDC, University of Colorado, Boulder

Nate James ESDIS, NASA

Lalit Wanchoo Adnet Systems

Daine Wright ORNL



Outline

- What is PO.DAAC?
- Why cite data
- DOIs
- Data Citation
- Continuing Development



podaac

Physical Oceanography Distributed Active Archive Center

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▼ Data

Search



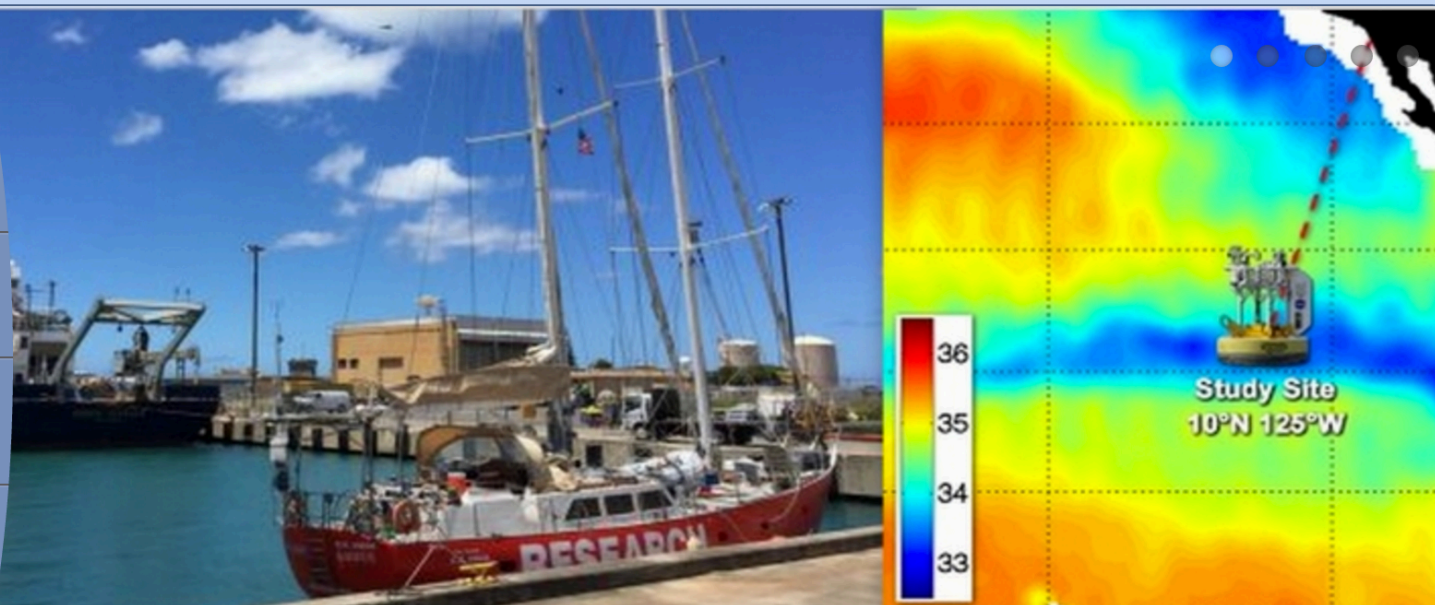
Home Dataset Discovery Data Access Measurements Missions Multimedia Community Forum About

Search

Access

Visualize

Help



NASA SPURS2 Field Campaign Embarks for the Eastern Tropical Pacific
The second phase of NASA's Salinity Processes in the Upper Ocean Regional Study (SPURS2) commenced in August 2016 to understand a high rainfall region in the Eastern Tropical Pacific.

Announcements

New GHRSSST L2/L3 Sea Surface Temperature datasets for MetOp-B Satellite Platform from OSI-SAF
Friday, September 2, 2016

PO.DAAC Scheduled Hardware Maintenance on 9/7/2016 (Wednesday) from 9am to 1pm (PST)
Thursday, September 1, 2016

Earth science data user experience survey
Tuesday, August 30, 2016

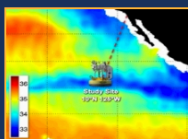
[More »](#)

Events

System Alerts

Spotlight

Ocean Stories Dataset Highlights Animations Images

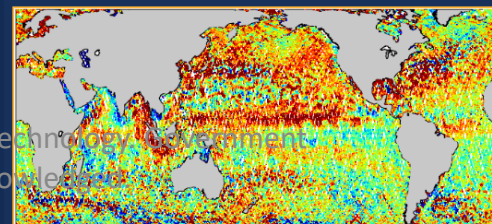


From Dry to Wet, Salty to Fresh: SPURS2 embarks on...
Tue, 08/30/2016

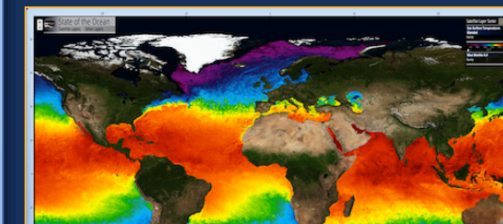
On August 19, 2016, the R/V Revelle began survey operations that will run through the middle of September 2016 at the site of the ...

Waves and Satellites: Effect of El Niño on Big Wav...

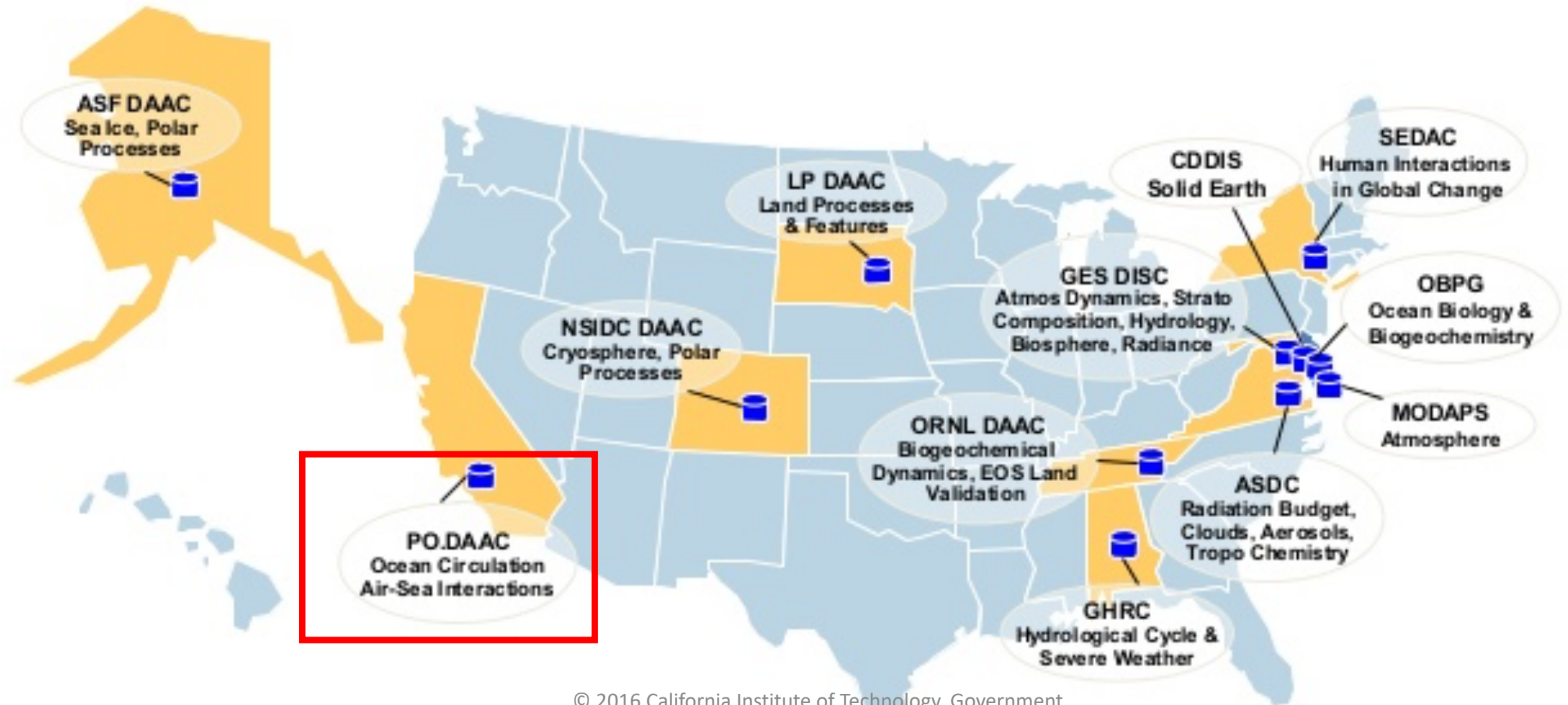
Image of the Day



State of the Ocean (SOTO)



EOSDIS Data Centers



Select Filter

Processing Levels

Any processing level
Level-3 (Grid) (48)

Grid Spatial Resolution

Any grid spatial resolution
≤ 0.05 deg (24)
0.05-0.25 deg (24)

Temporal Resolution

Any temporal resolution
Daily (12)
Weekly (12)
≥ Monthly (24)

Parameter

Any parameter
Ocean Temperature (48)
Any variable
Sea Surface Temperature (48)
Sea Surface Temperature Reconstruction
Skin Temperature
Surface Air Temperature
Temperature Profiles

Latency

Any latency
Near Real Time (16)
Delayed Mode (32)

Collections

Any collection
MODIS Terra and Aqua L3 SST (48)

Platform

Any platform
AQUA (24)
TERRA (24)

Dataset Discovery

To learn more about Ocean Temperature, please visit [this page](#).

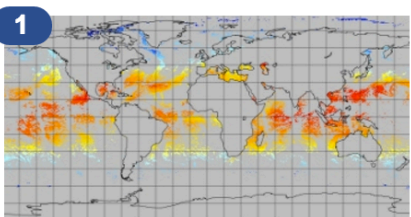
Found **48** matching dataset(s).

▶ [Advanced search](#)

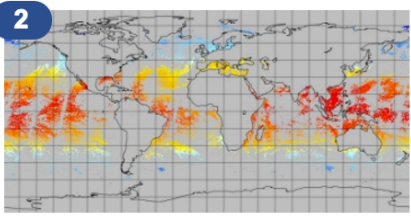
View mode:



Prev 1 2 3 4 5 Next



MODIS Aqua Level 3 SST Thermal IR Daily 4km Daytime
(MODIS_AQUA_L3_SST_THERMAL_DAILY_4KM_DAYTIME_V2014.0)
Ocean Temperature
Platform/Sensor: AQUA/MODIS
Processing Level: 3
Longitude/Latitude Resolution: 0.041 degrees x 0.041 degrees
Start/End Date: 2002-Jul-4 to Present
Description: The Moderate-resolution Imaging Spectroradiometer (MODIS) instrument (radiometer) on board the NASA Terra and Aqua satellite platform: and 2002 respectively ... [more](#)

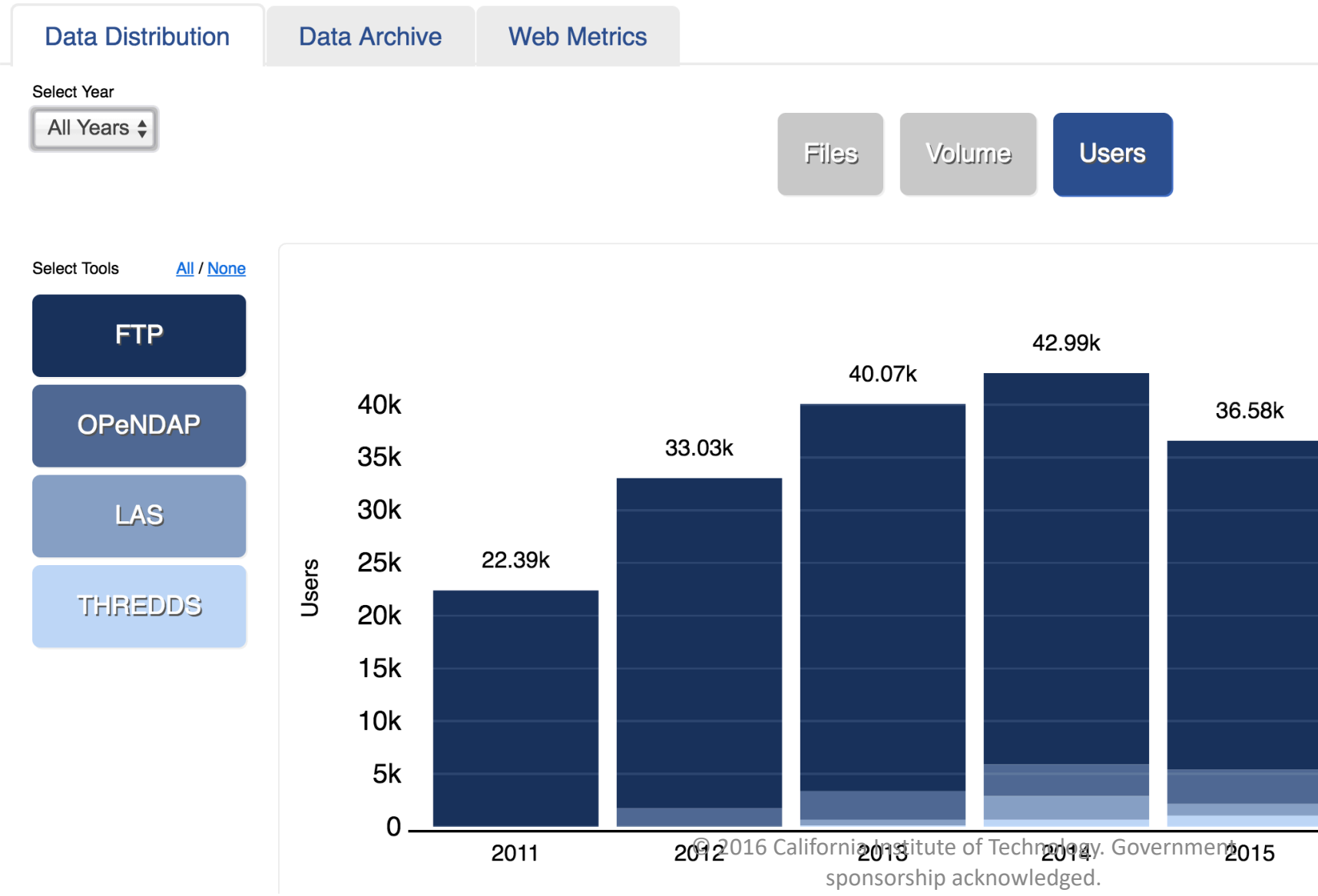


MODIS Terra Level 3 SST Thermal IR Daily 4km Daytime v2014.0
(MODIS_TERRA_L3_SST_THERMAL_DAILY_4KM_DAYTIME_V2014.0)
Ocean Temperature
Platform/Sensor: TERRA/MODIS
Processing Level: 3
Longitude/Latitude Resolution: 0.041 degrees x 0.041 degrees
Start/End Date: 2000-Feb-24 to Present
Description: The Moderate-resolution Imaging Spectroradiometer (MODIS) instrument (radiometer) on board the NASA Terra and Aqua satellite platform:

Why Cite Data?

- Provenance and reproducibility
 - Which dataset?
 - Version
 - Platform
 - Instrument
 - Processing level

PO.DAAC Metrics



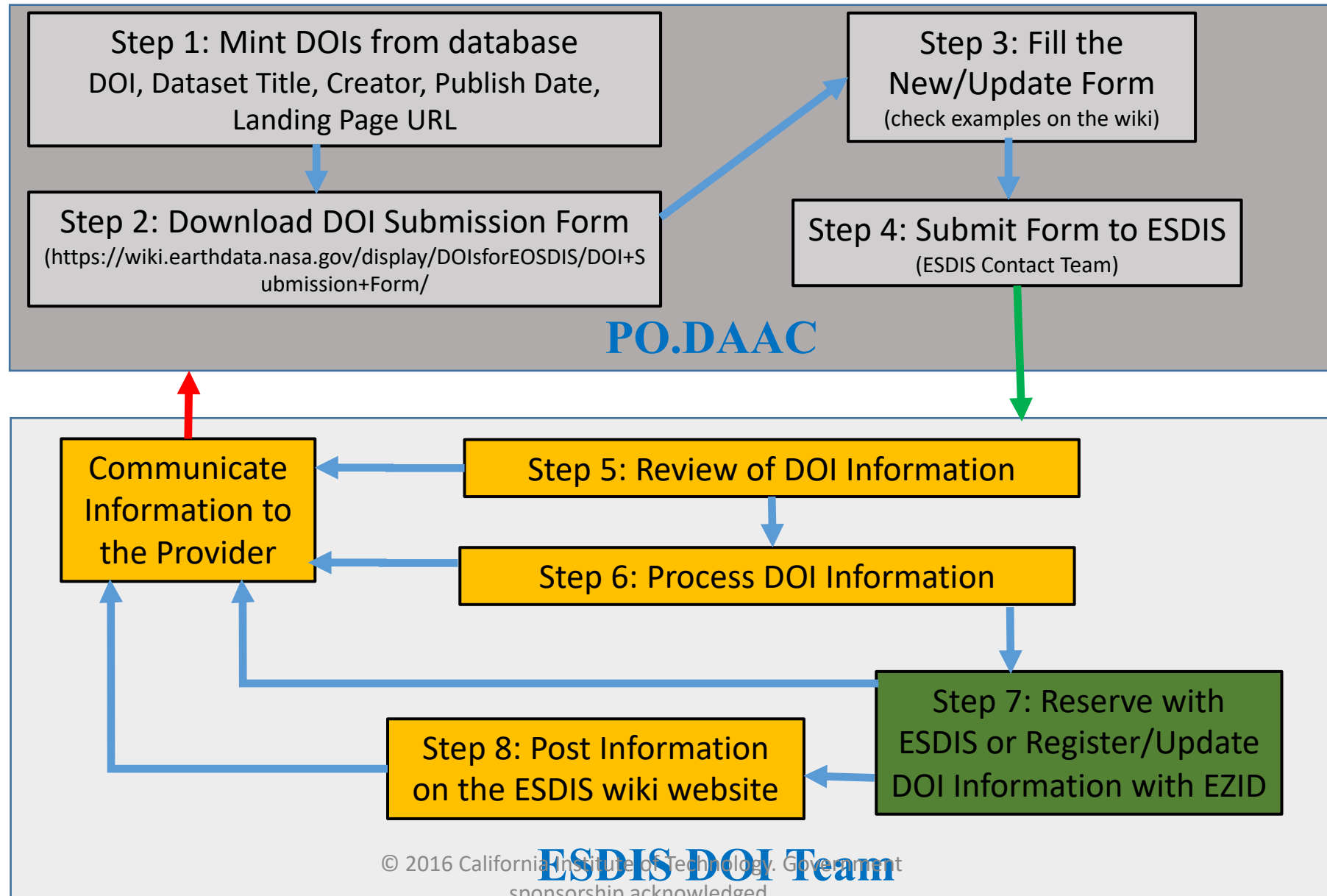
Why Cite Data?

- Metrics
 - MEaSUREs
 - What is the impact?
 - Acknowledgments are difficult to mine
- Credit to provider/PI
- Stewardship recognition

ESDSWG DOIs and Data Citation

- Earth Science Data System Working Group
- ESDSWG provides community-developed recommendations for NASA Earth science data systems
- Data citation working group
 - DOI registration process
 - Dataset landing page
 - Citation format (ESIP)

Minting and Registering DOIs



Dataset Title

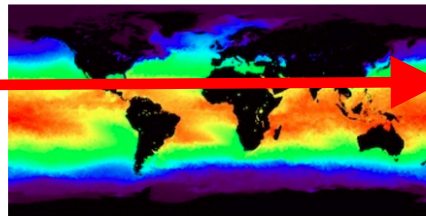
Dataset Citation

Data Access

DOI

Dataset Description

Version



GHR SST Level 4 MUR Global Foundation Sea Surface Temperature Analysis (v4.1)

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<http://podaac.jpl.nasa.gov/dataset/MUR-JPL-L4-GLOB-v4.1>

Please [contact us](#) if there are any discrepancies or inaccuracies found below.

Information

Data Access

Documentation

Citation

Granule (File) Listing

DOI

10.5067/GHGMR-4FJ04

Short Name

MUR-JPL-L4-GLOB-v4.1

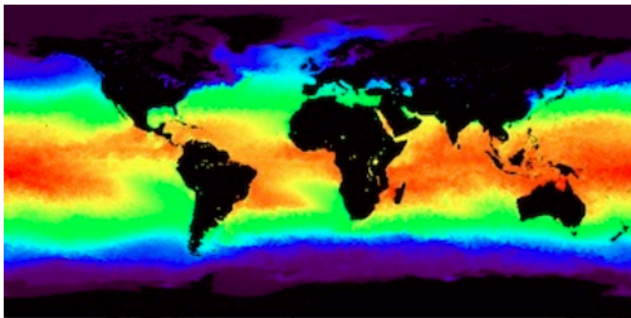
Description

A Group for High Resolution Sea Surface Temperature (GHR SST) Level 4 sea surface temperature analysis produced as a retrospective dataset (four day latency) and near-real-time dataset (one day latency) at the JPL Physical Oceanography DAAC using wavelets as basis functions in an optimal interpolation approach on a global 0.01 degree grid. The version 4 Multiscale Ultrahigh Resolution (MUR) L4 analysis is based upon nighttime GHR SST L2P skin and subskin SST observations from several instruments including the NASA Advanced Microwave Scanning Radiometer-EOS (AMSRE), the Moderate Resolution Imaging Spectroradiometer (MODIS) on the NASA Aqua and Terra platforms, the US Navy microwave WindSat radiometer, Advanced Very High Resolution Radiometer (AVHRR) on several NOAA satellites, and in situ SST observations from the NOAA iQuam project. The ice concentration data are from the archives at the EUMETSAT Ocean and Sea Ice Satellite Application Facility (OSI SAF) High Latitude Processing Center and are also used for an improved SST parameterization for the high-latitudes. This data set is funded by the NASA MEaSUREs program(<http://earthdata.nasa.gov/our-community/community-data-system-programs/measures-projects>), and created by a team led by Dr. Toshio M. Chin from JPL. This dataset adheres to the GHR SST Data Processing Specification (GDS) version 2 format specifications.

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Version

4.1



GHR SST Level 4 MUR Global Foundation Sea Surface Temperature Analysis (v4.1)

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<http://podaac.jpl.nasa.gov/dataset/MUR-JPL-L4-GLOB-v4.1>

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Information

Data Access

Documentation

Citation

Granule (File) Listing

Citation

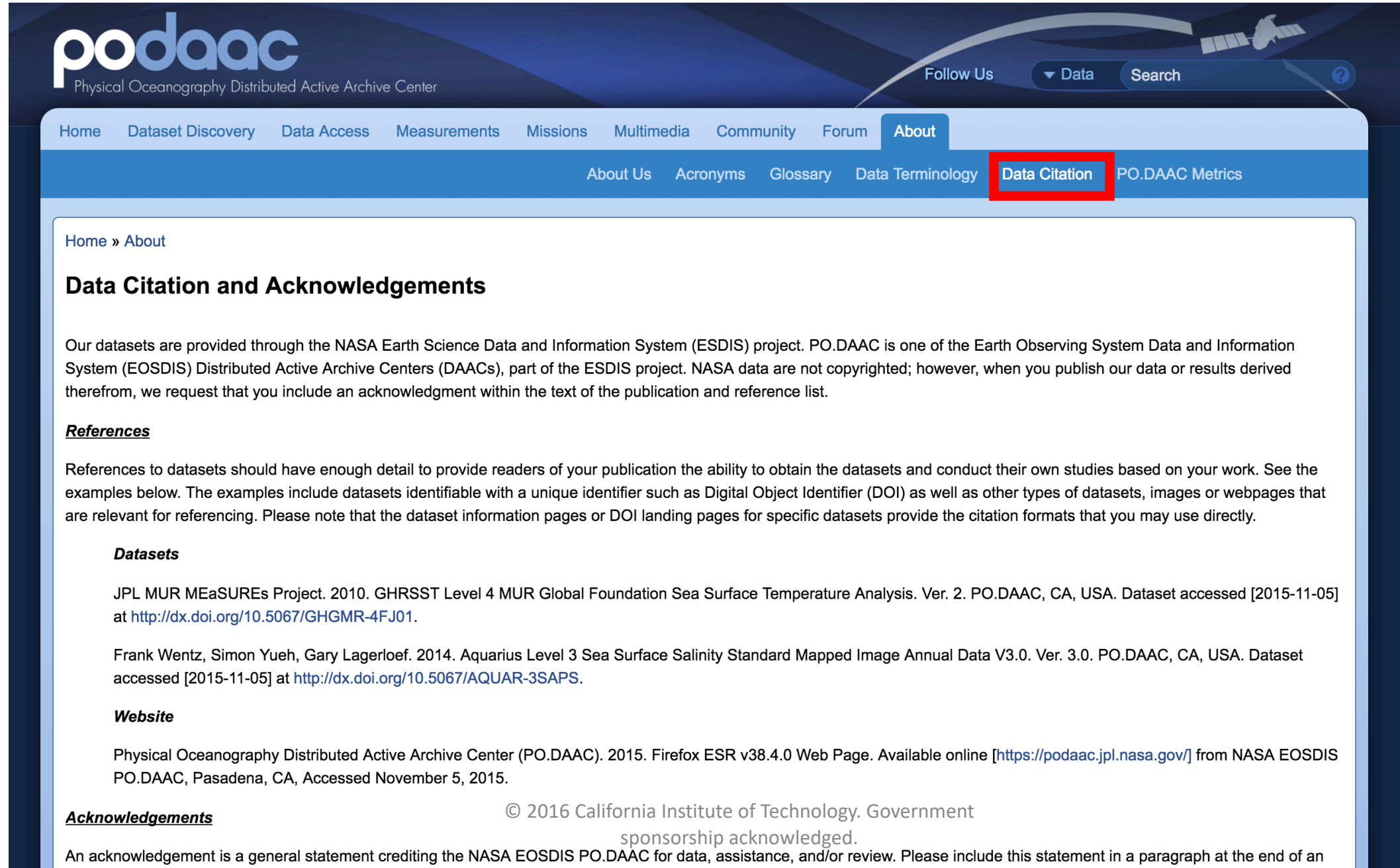
JPL MUR MEaSURES Project. 2015. GHR SST Level 4 MUR Global Foundation Sea Surface Temperature Analysis (v4.1). Ver. 4.1. PO.DAAC, CA, USA. Dataset accessed [YYYY-MM-DD] at <http://dx.doi.org/10.5067/GHGMR-4FJ04>.

For more information see [Data Citations and Acknowledgments](#).

Journal Reference

Information on the analysis can be found at ftp://mariana.jpl.nasa.gov/mur_sst/tmchin/docs/ATBD/

PO.DAAC Data Citations



The screenshot shows the PO.DAAC website with a blue header and navigation bar. The 'Data Citation' link in the top navigation bar is highlighted with a red rectangle. The main content area is titled 'Data Citation and Acknowledgements' and contains text about data access, references, datasets, and website information. The footer includes copyright information and a statement about acknowledgements.

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About Us Acronyms Glossary Data Terminology **Data Citation** PO.DAAC Metrics

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Data Citation and Acknowledgements

Our datasets are provided through the NASA Earth Science Data and Information System (ESDIS) project. PO.DAAC is one of the Earth Observing System Data and Information System (EOSDIS) Distributed Active Archive Centers (DAACs), part of the ESDIS project. NASA data are not copyrighted; however, when you publish our data or results derived therefrom, we request that you include an acknowledgment within the text of the publication and reference list.

References

References to datasets should have enough detail to provide readers of your publication the ability to obtain the datasets and conduct their own studies based on your work. See the examples below. The examples include datasets identifiable with a unique identifier such as Digital Object Identifier (DOI) as well as other types of datasets, images or webpages that are relevant for referencing. Please note that the dataset information pages or DOI landing pages for specific datasets provide the citation formats that you may use directly.

Datasets

JPL MUR MEaSUREs Project. 2010. GHRSSST Level 4 MUR Global Foundation Sea Surface Temperature Analysis. Ver. 2. PO.DAAC, CA, USA. Dataset accessed [2015-11-05] at <http://dx.doi.org/10.5067/GHGMR-4FJ01>.

Frank Wentz, Simon Yueh, Gary Lagerloef. 2014. Aquarius Level 3 Sea Surface Salinity Standard Mapped Image Annual Data V3.0. Ver. 3.0. PO.DAAC, CA, USA. Dataset accessed [2015-11-05] at <http://dx.doi.org/10.5067/AQUAR-3SAPS>.

Website

Physical Oceanography Distributed Active Archive Center (PO.DAAC). 2015. Firefox ESR v38.4.0 Web Page. Available online [<https://podaac.jpl.nasa.gov/>] from NASA EOSDIS PO.DAAC, Pasadena, CA, Accessed November 5, 2015.

Acknowledgements

© 2016 California Institute of Technology. Government sponsorship acknowledged.

An acknowledgement is a general statement crediting the NASA EOSDIS PO.DAAC for data, assistance, and/or review. Please include this statement in a paragraph at the end of an

Continuing Development

- At PO.DAAC
 - Add lineage of versions on landing page
 - Search on DOI
- At ESDIS
 - Pull metadata for DOI registration from the Common Metadata Repository (CMR)

Next steps

- Software citations
 - On demand data production
 - Analytics
 - Stewardship
 - Provenance
 - Reproducibility